

(1) Number of pages 22
(2) Date of repair 15-7-87
(3) Initials of the Referencer lms

TAMIL NADU ARCHIVES

GOVERNMENT OF TAMIL NADU

P.W DEPARTMENT

G.O. No.	2568 w	Press.
B.P. No.		Mis.
Dated	14-9-1983	~~1983~~

Govt

Not to be folded or roughly handled.

14TH SEPTEMBER 1883, No. 2568 W., PUBLIC WORKS.

GOVERNMENT OF MADRAS.
PUBLIC WORKS DEPARTMENT.

General.
Account.

READ—the following letter from Colonel W. S. TREVOR, R.E., Secretary to the Government of India, Public Works Department (Account—General), to the Secretary to the Government of Madras, Public Works Department, dated Simla, 24th August 1883, No. 246 A.G. :—

In continuation of Public Works Department letter, No. 63 A.G., dated 8th February last, I am directed to invite the attention of the Government of Madras to the objectionable expenditure marginally noted which remained unremedied in the accounts up to end of April 1883, and to inquire what steps have since been taken to regularise the outlay in question.

Excess for Estimate.

	Outstanding since	Original Estimate.	Excess Outlay.
		RS.	RS.
1. Manufacture of stone at Dow-laishweram	June 1882	10,150	22,399
2. Manufacture of lime	Do.	3,010	3,053
3. New Pottinghy Ghât Road	Sept. 1881	1,30,400	1,86,243
4. Restoration of Tirumala Naick's Palace	Aug. 1882	1,64,723	41,499

ORDER—dated 14th September 1883, No. 2568 W., Public Works.

Items 1 and 2, referred to in the foregoing letter from the Government of India, have since been remedied.

2. With reference to Item 3, a revised estimate for the Pottinghy Ghât Road, amounting to Rs. 4,22,711, was sanctioned in G.O., No. 1967 W., dated 13th July 1883, and the expenditure on the work has thus been regularised.

3. With regard to Item 4, "Restoration of Tirumala Naick's Palace," a Committee has recently been appointed * to take the whole subject into consideration, and to report on the measures necessary for the completion of the buildings and their adaptation for public offices. On receipt of the Committee's report, complete revised estimates will be framed, and an early settlement of the question may thus be looked for.

4. Ordered that a copy of these Proceedings, with a copy of G.O., No. 1917 W., dated 9th July 1883, be forwarded to the Government of India for information.

(Here enter No. 2569 W., dated 14th September 1883.)

(True Extract.)

To the Superintending Engineer, First Circle.

" Examiner, Public Works Accounts.

Exd. A. F. Goodall.

Spare Copies

Major, R.E.,
Under Secy. to Govt., P.W.D.

GENERAL.
ACCOUNT.

Govt. of (1883) Madras.

PUBLIC WORKS.

Dated September, 14th.

Recd.

Encl.

G.O., 14th Sept. 1883, No. 2568 W.

SEPTEMBER.

Objectionable Expenditure

Passing orders on letter from the Government of India calling attention to certain — which remained unremedied in the accounts up to end of April 1883.

14TH SEPTEMBER 1883, No. 2569 W., PUBLIC WORKS.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

General.
Account.

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(True Extract.)

(Signed) R. H. SANKEY, Major-General, R.E.,
Secretary to Govt., P.W.D.

To the Superintending Engineer, First Circle.

" Sixth " Examiner, Public Works Accounts.

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14TH SEPTEMBER 1883, No. 2569 W., PUBLIC WORKS.

ENDORSEMENT—dated 14th September 1883, No. 2569 W., Public Works.
Forwarded.

Major, R.E.,
Under Secy. to Govt., P.W.D.

Exd. A. F. Goodall.
Spare Copies

GENERAL.
ACCOUNT.

Govt. of (1883) Madras.

PUBLIC WORKS.

Dated September, 14th.

Recd.

Encl.

G.O., 14th Sept. 1883, No. 2569 W.

SEPTEMBER.

Objectionable Expenditure

FORWARDING, for information, copy of orders passed on letter from the Government of India calling attention to certain — which remained unremedied in the accounts up to end of April 1883.

13TH JULY 1883, No. 1967 W., PUBLIC WORKS.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Civil Works.

READ—the following papers:—

From G. T. WALCH, Esq., Officiating Superintending Engineer, First Circle, to the Chief Engineer, Public Works Department, dated Dowlaishweram, 24th May 1883, No. 78 V.Z.

I have now the honor to forward, herewith, the revised estimates, &c. (as per enclosed list), for the Potinghy Ghât, prepared as suggested in my No. 585 V.Z., paragraph 4, and approved in your No. 322 C., dated 31st January 1883.

2. These were received from the Executive Engineer, Vizagapatam, on 28th ultimo, but when I looked into them I found it necessary to call for explanation on certain points, the chief of these being the increase in rates allowed for work yet to be done above the actual of work already done, and the Executive Engineer's explanation *

* No. 341, dated 16th May 1883.
on this subject, which reached me on the 20th instant, I enclose a copy of.

ENCLOSURE.

From T. D. HARRIS, Esq., Executive Engineer, Vizagapatam Division, to the Superintending Engineer, First Circle, dated Waltair, 16th May 1883, No. 341.

With reference to your No. 50 V.Z., dated the 7th May 1883, I have the honor to report that the main cause for the increase of rates is the different classes of work now encountered. Up to the end of January 1882 all the work was near the foot of the ghât and none of the heaviest work was done at all.

2. As regards the different items mentioned in your remarks, I will take them separately.

(1.) *Earthwork*.—The original opening out a path or the beginning of widening the road is always fairly easy. It is when once comes to finishing off and clearing away the hard pieces that have been left by former workmen that the rates rise. Forming the road surface, which is charged to earthwork, necessitates not only digging, but carefully filling in again in a given form. This adds materially to the cost. In the estimate submitted in April 1881 the rate provided for by me was 4 annas per cubic yard, or Rs. 9-25 per 1,000 cubic feet, but the rate was reduced to 3 annas per cubic yard, or Rs. 6-94 per 1,000 cubic feet, by Colonel Prendergast for reasons unknown to me. Thus you will observe that the rate now allowed in the revised estimate is less by 8 annas per 1,000 cubic feet than the rate allowed in 1881, and it is not possible to get work done at lower rates than this in such a place.

- (2.) *Removing rock without blasting.*—The rate allowed by Colonel Prendergast and approved of by Colonel Sankey was allowed to remain. As there is yet a great deal of work to be done in the upper section, the cost of labor will be increased, which will materially add to the cost.
- (3.) *Blasting and removing rock.*—The increase of rate is partly due to the work now being done in the upper sections, by which the cost of carriage and labor is materially increased; also to the fact that none of the blasted rock used for revetment has been counted in striking the rates. All the rock that is blasted is used up either for revetment or parapet wall, but as the quantity of rock so used up was not included in the item of blasting and removing rock, the rate was increased. Orders have been issued so that the real amount of rock blasted will be shown hereafter. Although the rate now allowed in the revised estimate hardly represents the true rate at which rock has been removed, yet I consider it may be allowed to stand.
- (4.) *Rough-stone revetment.*—It is very natural that the rate for this should rise as the work goes on. No heavy revetments were built until 1882; and in many cases these cost Rs. 1-8-0 per cubic yard, which materially influences the general rate. As the work gets on, all the available stone is used up, until at the end a revetment otherwise easy becomes very costly owing to the distance from which stone has to be fetched. It has been found that parapet walls which ought not to cost more than from 8 annas to 10 annas have in this way come to 12, even 14, annas per cubic yard. I might here say for your information that it is not possible for us to get revetments built for such a cheap rate, but for dynamite, which breaks off stones into serviceable pieces for revetment work at all points.
3. In conclusion I beg to inform you that I do not think it will be possible to work much lower than the rates at present shown in the register of works, nor do I think that for ghât work, so far from the centres of labor, the rates are excessive. Great care has been taken to keep the rates as low as is consistent with getting a maximum supply of labor, and I feel sure that they will compare favorably with those on other works of a similar nature.

From G. T. WALCH, Esq., Officiating Superintending Engineer, First Circle, to the Chief Engineer, Public Works Department, dated Dowlaishweram, 14th June 1883, No. 118 V.Z.

In continuation of my letter, No. 78 V.Z., dated 24th May 1883, I have the honor to forward, herewith, a specification report just received from the Executive Engineer to be attached to the revised estimate for the new Pottinghy Ghât Road.

Memorandum by the Chief Engineer, Public Works Department.

The revised estimate for completing the Pottinghy Ghât Road is submitted for the sanction of Government.

2. The original estimate for this work was sanctioned in G.O., No. 1803, dated 18th July 1876, for Rs. 1,30,400. A revised estimate, amounting to Rs. 3,27,300, was submitted in July 1881, but was returned for revision with the Chief Engineer's memorandum, No. 316, dated 26th July 1881. It was again submitted in September 1882 (amounting to Rs. 3,31,800), but being still deficient in certain important particulars, it was once more returned for further revision with the Chief Engineer's memorandum, No. 1871 C., dated 19th October 1882. Since then several communications on the subject have passed between the Chief Engineer and Superintending Engineer, and the complete estimate has now been submitted for Rs. 4,20,465. Owing, however, to a slight alteration, explained below, the total amount has been raised to Rs. 4,22,711.

3. The Chief Engineer cannot say that the revised project has been sent up in a satisfactory manner, as for instance, a comparative statement is altogether wanting, a most important component of a revised estimate, and in other respects the documents are defective; but there have been many difficulties and drawbacks to contend

with in the preparation of the estimate, as in the execution of the work itself, and the Government will perhaps overlook deficiencies in consideration of the nature of the

Died.
Private T. Beardon, Overseer, 3rd Grade.
Mr. J. Gibbs, Temporary Overseer, 2nd Grade.
Mr. T. J. Kelly, do. do.
Mr. E. L. Rebeiro, do. 1st Grade.

Transferred on account of Sickness.
Sub-Conductor J. Kelly, Supervisor, 1st Grade.
Mr. P. Whitbread, Overseer, 1st Grade.
P. N. Scobiah Naidu, Supervisor, 2nd Grade.
Mr. J. Hamnett, Supervisor, 1st Grade. (Since
Mr. S. Francis, do. do. (pen-
sioned)
Mr. J. Hicken, do. 2nd Grade.

Transfers applied for on account of Sickness.
Sub-Conductor J. Keenan, Sub-Engineer, 2nd Grade.
T. Vythialingum Pillay, Supervisor, 1st Grade.

work and of the deadly character of the climate of the ghât. These difficulties have been quite exceptional, and the deaths and invalidings among members of the establishment during the progress of the work have been regrettably large as will be seen from the marginal statement. Mr. Harris, the Executive Engineer, has himself been more than once in a very critical state from fever there contracted.

4. The rate for earthwork, Rs. 8-12-0 per 1,000 cubic feet, is not high for the locality, if the filling be thoroughly well done. The rate for blasting, Rs. 10 for a unit of 100 cubic feet, is very low, chiefly owing apparently to the use of dynamite. For rough-stone revetment the rate is Rs. 8-6-0 per 100 cubic feet, not high if the work be first class. For metalling and gravelling the rates are low for good work in such a locality.

5. The estimate, as submitted, provided for a depth of 4 inches of metal and 3 inches of gravel, but the Chief Engineer considers that there should not, if possible, be less than a consolidated thickness of 5 inches of metal, while 1 inch of gravel would suffice for surfacing. The estimate has therefore been altered accordingly in this office, the result being a slight increase in the total cost.

6. An important point touched upon in the papers is that the quantities of work passed and paid for are considerably in excess of the work actually done, as ascertained by careful measurements of the road in its present existing state. Part of this difference only is accounted for by deviations, but on a large work of this character there is always a tendency to over-measure work so as to keep down the rates. The Chief Engineer has no doubt, from his own inspection of the work, that owing to want of proper setting out in the first instance, and the absence of bench-marks and level pegs, a great deal of work had to be redone, and that the excesses due to this must be added to those above mentioned. These circumstances have necessitated a peculiar preparation and arrangement of the estimate. Work has been provided for (said to have been done up to the end of January 1883) as per the books, and then the work which remains to be done, after careful mile to mile measurements, is allowed. The cost of the former is largely in excess of the latter, but in the circumstances of the case, there is apparently no more reliable or satisfactory system available, however objectionable it may be in principle.

7. The numerous road dams built or provided for on many portions of the ghât will eventually prove a great nuisance and obstruction to traffic, and wherever many of these come close together, they should be replaced by proper covered drains, more especially on the steeper gradients. The Superintending Engineer should lose no time in submitting a supplemental estimate for these culverts, which should be carried out while operations on the ghât are in progress.

8. In conclusion, the Chief Engineer would bring to the favorable notice of Government the exertions made by Mr. Harris, the Executive Engineer, Mr. H. E. Clerk, Assistant Engineer, and all the subordinates employed on the ghât, in pushing on this important project towards completion. A more trying work has probably never before been carried out in this Presidency.

OOTACAMUND,
13th July 1883.

(Signed) R. H. SANKEY, Colonel, R.E.,
Chief Engineer, P.W.D.

Order—dated 13th July 1883, No. 1967 W., Public Works.

The revised estimate, amounting to Rs. 4,22,711, as altered in the Chief Engineer's Office, for completing the new Pottinghy Ghât Road, is sanctioned.

2. The supplemental estimate alluded to by the Chief Engineer in paragraph 7 of his memorandum above recorded should be submitted by the Superintending Engineer as soon as possible.

3. His Excellency the Governor in Council warmly acknowledges the services of Mr. Harris, the Executive Engineer, of Mr. H. E. Clerk, Assistant Engineer, and of the subordinates employed on the ghât, in connection with this difficult and trying work. The many casualties that have occurred among the establishment from deaths and invaliding are greatly to be regretted.

4. The sanction accorded in paragraph 1 of this order has been registered as Provincial No. 71 W. of 1883-84 and classified as Communications, Original Works. Provincial No. 101 W. of 1876-77 is cancelled.

(True Extract.)

(Signed) R. H. SANKEY, Colonel, R.E.,
Secretary to Govt., P.W.D.

To the Superintending Engineer, First Circle, with twenty-two Enclosures.
" Examiner, Public Works Accounts, with Abstract Estimate.
" Revenue Department.
" Judicial do.
" Financial do.

Exd. A. F. Goodall.
Spare Copies

BUILDINGS AND ROADS.
CIVIL WORKS.

Govt. of (1883) Madras.
PUBLIC WORKS.

Dated July, 13th.

Recd.

Encl.

G.O., 13th July 1883, No. 1967 W

JULY.

Potinghy Ghat Road

Revised estimate for completing the sanctioned; and services of Messrs. T. Harris and H. E. Clerk and subordinates employed on the work, warmly acknowledged.

No. 246 A4.

GOVERNMENT OF INDIA.

PUBLIC WORKS DEPARTMENT.

ACCOUNT.

General

To the Secretary to the
Government of Madras,
Public Works Department
Simla, 24th August, 1883.

Sir,

In continuation of Public Works Department letter No. 63 A4, dated 8th February last, I am

Excess for Estimate

	Outstanding since	original estimate	Excess outlay	directed to
1. Manufacture of Stone at Dowlesheram	June 1882	10,150	22,399	invite the attention
2. Manufacture of lime	June "	3,010	3,053	of the Government
3. New Potinghy Ghat Road	Sept 1881	1,30,400	1,86,243	of Madras
4. Restoration of Terminal Maekko Palace	August 1882	16,473	41,499	to the objectionable expenditure

marginally noted which remained unremedied in the accounts up to end of April 1883, and to enquire what steps have since been taken to regularize the outlay in question.

I have the honor to be,
Sir,

Your most obedient servant

M. J. J. Craze
Secretary to Govt. of India

B 500 in 16-2-83
 for 1917 in 9-7-83
 - 1967 in 13-7-83
 B 2483 in 7-8-83

Ad. One 7560

Rec 3/9/83

Old 48-8
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D. J. J. J.
 12/9

W 256 8/10
 12/9

The accy. drop
 order has come
 back from City
 House, but
 as the O.I. statement
 for June just
 received, shows
 that the first
 two items men-
 tioned in the
 G. & J. letter
 have been re-
 moved, it is
 proposed to alter
 line 1 of the order
 as shown in pencil.

I approved.
 Kindly initial
 the alteration.

Approved & initial
 by
 12/9

C. J. J. J.
 12/9

B 500 v 16-2. P3
1914

No 2568W

PUBLIC WORKS DEPARTMENT

PROCEEDINGS OF THE MADRAS GOVERNMENT.

Under date the 14th Sept 1883

Read the following

From the Govt of India - (H.O. No. 246-P.S. of 24th Aug 83)

Items 142 referred to in the foregoing letter from the Govt of India have since been remedied.

CS

With regard to items 142 referred to in the foregoing letter from the Government of India, the Supy. Engineer (Circ.) was called upon in the objectionable item statement for April 1883, to report at once on the excess outlay, and in the statement for May 1883 (H.O. No. 2183-P, dated 7th August 1883) the call for explanation was repeated - The Supy. Eng.

Engineers will expedite
the submission of his
report, in view to the
early removal of these
objections.

2. With reference to item
3, a revised estimate for
the Patingly Ghat Road
amounting to Rs. 1,22,711
was sanctioned in L.C.
No. 17678, dated 13th July
1883 and the expenditure
on the work has thus
been regularised.

3. With regard to item
4, "Restoration of Shiv-
malas Kaic K's Palace",
a committee has recently
been appointed to take
the whole subject into
consideration, and to
report how the measures
necessary

* L.C. No. 19174 of 9th
July 1883.

L.C. First Field 7
a Sixth Field 5
Exor. P. H. Accts. 11
21
44

9/10
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-pletion of the buildings
and their adaptation
for public offices. On
receipt of the Com-
-missioner's report, com-
-plete revised estimates
will be framed, and an
early settlement of the
question may thus be
looked for.

4. Ordered that a copy
of these Proceedings with
a copy of L.C. No. 17178
dated 7th July 1883, be
forwarded to the Govt.
of India for information.

H.C. No. 25698 of 14th Sept 83

Devo Forwarded -

21/9 W. 11/9 7/11 18
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Govt. of Madras.

PUBLIC WORKS.

Date

From

To

11. Sept. 1868-9

No.

114

Objectionable Expenditure

Reading orders in letter
from the Govt of India
calling attention to certain
which remained unremitted
in the accounts up to end
of April 68.

Objectionable Expenditure

Forwarding for information copy
of order passed on letter
from the Govt of India calling
attention to certain
which remained unremitted
in the accounts up to end of April